



**MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT**

14306 Park Avenue Victorville, CA 92392-2310  
760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

**INACTIVE**

C010900

Inactive type Permit has no description information.

**EXPIRES LAST DAY OF: DECEMBER 2015**

**OWNER OF OPERATOR (Co.#500)**

ACE Cogeneration Company  
12801 S Mariposa Street  
Trona, CA 93562

**EQUIPMENT LOCATION (Fac.#1051)**

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12801 S Mariposa Street  
Trona, CA 93562

**Description:**

CARBON SEQUESTRATION SYSTEM, TEMPORARY consisting of: A sodium hydroxide absorber pilot scale system processing 10 percent of the flue gas from the ACE coal fired boiler (B002120), exhausting through its own separate stack. This system is designed to convert gaseous carbon dioxide into carbonate and/or bicarbonate, and will use sodium hydroxide, ACE cooling tower blowdown water and/or Searles Lake brine as reagents.

**EQUIPMENT**

Capacity	Equipment Description
0	Absorption tower with inlet fan
0	Dewatering unit
0	Mixing and handling tanks
0	Material storage and handling equipment
0	Recirculation pumps and ancillary equipment
0	Water desalination unit

**CONDITIONS:**

1. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles, which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

[Rule 1302(C)(2)(a), Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(239)(i)(A)(1) 61 FR 58133; Current Rule Version =

Fee Schedule: 7 (h)

Rating: 1 device

SIC: 4911

SCC: 10100217

Location/UTM(Km):  
465E/3958N

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

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By: **COPY**  
**Eldon Heaston**  
Air Pollution Control Officer

08/26/06]

2. The exhaust from this equipment, in combination with the exhaust from the primary exhaust stack for the steam boiler (B002120), shall comply with all emission limits and restrictions of B002120 while this equipment accepts flue gas from that boiler, verified by CEMS and weekly visibility determination in accordance with Federal Opacity Reference Method 22 (and 9 if necessary).

[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]

3. The emissions of CO, NO<sub>x</sub> (as NO<sub>2</sub>), Ammonia and SO<sub>x</sub> (as SO<sub>2</sub>) as well as O<sub>2</sub> (a diluent gas) of this equipment shall be monitored using a Continuous Emissions Monitoring System (CEMS). The stack gas flow rate shall be monitored using a Continuous Emission Rate Monitoring System (CERMS). These systems shall be operating at all times in accordance with the District approved monitoring plan.

[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]

4. The following are the acceptability testing requirements for the CEMS, CERMS and COMS:

a. For SO<sub>2</sub> and NO<sub>x</sub> CEMS - Performance Specification 2 of 40 CFR 60 Appendix B.

b. For O<sub>2</sub> CEMS - Performance Specification 3 of 40 CFR 60 Appendix B.

c. For CO CEMS - Performance Specification 4 of 40 CFR 60 Appendix B.

d. For CERMS (stack gas flow rate) - Performance Specification 6 of 40 CFR 60 Appendix B.

[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]

5. This unit is subject to Clean Air Mercury Rule (CAMR) - 40 CFR 60 Subpart HHHH. Beginning in 2009, this equipment is subject to mercury emission monitoring and reporting requirements (in the form of annual mercury testing per 40 CFR 75.81, and reporting per 40 CFR 60.4170 through 4176).

6. Emissions and operations of this equipment shall be logged and reported as an element of the log and reports for the steam boiler (B002120), including explicit references to separate and cumulative emissions for those periods during which this equipment receives flue gas from the steam boiler. A separate log shall be maintained that includes the date and results of stack visibility observations.

[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]